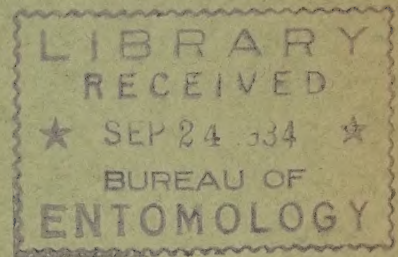


Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF CHEMISTRY AND SOILS
INSECTICIDE DIVISION

Patent List No. 16



A LIST OF
UNITED STATES PATENTS
Issued from 1917 to 1933 inclusive
relating to
FLY SWATTERS
Compiled by
R. C. Roark

Washington, D.C.
August 1934.

A LIST OF UNITED STATES PATENTS ISSUED FROM 1917 TO 1933, INCLUSIVE,
RELATING TO FLY SWATTERS

Compiled by

R. C. Roark

Insecticide Division, Bureau of Chemistry and Soils.

This list of 86 patents includes all those relating to devices for killing flies by hitting them with rubber, paper, wire screen or other flexible material attached to a handle, which devices are commonly called fly swatters.

Every effort has been made by the compiler to make this list of patents complete and no discrimination is intended against any patent mention of which is inadvertently omitted.

The Department of Agriculture assumes no responsibility for the merits or workableness of any of the patents, nor does it recommend any of the inventions listed.

- - - - -

1,214,446 (Jan. 30, 1917; appl. July 8, 1916.) FLY-SWATTER.
Clarence L. Ferguson, Georgetown, Mass. - One-half to William P. R. Estes, Jr., Haverhill, Mass.

1,217,212 (Feb. 27, 1917; appl. Aug. 13, 1915.) FLY-SWATTER.
Elmer O. Pitts, Colbran, Colo.

1,218,619 (Mar. 13, 1917; appl. Sept. 7, 1915.) IMPLEMENT OR DEVICE FOR KILLING OR DISABLING INSECTS, FLIES, OR THE LIKE. John L. Bennett, Decatur, Ill. - United States Wire Mat Co., Decatur, Ill.

1,225,971 (May 15, 1917; appl. Jan. 20, 1916.) INSECT-BEATER.
Willard W. Kester, Paso Robles, Calif.

1,228,701 (June 5, 1917; appl. July 25, 1916.) INSECT-KILLER.
Alexander E. Rochfort, Oakland, Calif.

1,228,891 (June 5, 1917; appl. Oct. 23, 1916.) FLY-SWATTER.
David E. Emanuel, Des Moines, Iowa.

1,237,081 (Aug. 14, 1917; appl. Feb. 27, 1917.) FLY-SWATTER.
James L. Mott, Jr., Hempstead, N.Y. - One-half to Lewis K. Klemm, Jr., East Hempstead, Long Island, N.Y.

1,237,168 (Aug. 14, 1917; appl. June 18, 1917.) IMPLEMENT OR DEVICE FOR KILLING OR DISABLING INSECTS, FLIES, OR THE LIKE.
Arthur W. Cash, Decatur, Ill. - United States Wire Mat Co., Decatur, Ill.

1,254,092 (Jan. 22, 1918; appl. July 20, 1917.) FLY- SPAT
Joseph M. Vail, Bryan, Ohio.

1,255,303 (Feb.5,1918; appl. Apr.18, 1916.) FLY-SWATTER.
Hans P. Fogh, Seattle, Wash.

1,261,222 (Apr.2,1918); appl. May 29, 1915) FLY-KILLING DEVICE.
Fred E. Earles, Chicago, Ill., and Frank G. Lowe, Detroit, Mich.

1,263,988 (Apr.23,1918; appl. Nov.10,1916.) EXTENSION FLY-SWATTER.
Agnes O. Youngs, Bozeman, Mont.

1,268,640 (June 4, 1918; appl. June 2, 1914.) INSECT-DESTROYER.
William F. Stearns, Exeter, N.H.

1,272,295 (July 9, 1918; appl. Feb.9, 1916.) FLY-SWATTER.
Franklin O. Moore, Glendale, Calif.

1,277,216 (Aug.27, 1918; appl. June 19, 1918.) FLY-SWATTER.
Clyde S. Hutton, Conyngham, Pa.

1,279,985 (Sept.24,1918; appl. June 18, 1917.) IMPLEMENT OR
DEVICE FOR KILLING OR DISABLING INSECTS, FLIES, OR THE LIKE.
Arthur W. Cash, Decatur, Ill. - United States Wire Mat Co., Decatur, Ill.

1,286,894 (Dec.3,1918; appl. Dec. 8, 1915; Renewed Mar.23,1918.)
FLY-KILLER. John P. Hall and Claude F. Fields, Caldwell, Idaho.--Said
Fields to Said Hall.

1,288,583 (Dec. 24,1918; appl. Mar. 10, 1917.) FLY-SWATTER.
George D. Henry, Kansas City, Mo.

1,290,998 (Jan.14, 1919; appl. May 13, 1918;) INSECT-SWATTER.
Robert L. Horsley, Memphis, Tenn. - Compress Buckle Co., Fort Worth, Tex.

1,293,591 (Feb. 4, 1919; appl. May 24, 1918.) FLY-SWATTER.
Winfred W. Whaley, Wilmington, N.C.

1,299,580 (Apr. 8, 1919; appl. May 21, 1917.) INSECT-DESTROYER.
George D. Krumlaw, Ashland, Ohio.

1,315,186 (Sept.2, 1919; appl. Oct.9, 1916) FLY-SWATTER.
George D. Henry, Kansas City, Mo.

1,317,999 (Oct. 7, 1919; appl. Jan.16, 1917.) FLY-SWATTER.
Edwin E. Thomas, Portland, Ore. - H.O. Tenney, Portland, Ore.

1,326,577 (Dec. 30, 1919; appl. Feb. 28, 1919.) FLY-SWATTER.
Ernest E. Cullen, Anchorville, Mich. - One-half to George E. Vernier,
Fair Haven, Mich.

1,331,266 (Feb. 17, 1920; appl. Jan.25, 1919.) FLY-KILLING
IMPLEMENT. George B. Keplinger, Chicago, Ill. - Cruver Mfg. Co.
Chicago, Ill.

1,331,306 (Feb. 17, 1920; appl. Jan. 25, 1919.) FLY-KILLER.
Marius Z. Wohlhuter, Chicago, Ill. - Cruver Mfg. Co., Chicago, Ill.

1,334,246 (Mar. 16, 1920; appl. June 12, 1919.) FLY-SWATTER.
Benjamin F. Kelso, Hemet, Calif.

1,340,767 (May 18, 1920; appl. Oct. 11, 1919.) FLY-KIDLING DE-
VICE. George M. Hannon, Belton, Tex.

1,342,974 (June 8, 1920; appl. Nov. 12, 1919.) INSECT-SWATTER.
Allen Smith, Jr., San Diego, Calif.

1,354,775 (Oct. 5, 1920; appl. Mar. 15, 1920.) FLY-SWATTER.
George A. Moore, Medford, Mass.

1,361,337 (Dec. 7, 1920; appl. Apr. 12, 1920.) FLY-SWATTER.
Benjamin F. Kelso, Pasadena, Calif.

1,368,247 (Feb. 15, 1921; appl. Mar. 12, 1920.) FLY-SWATTER.
Joseph Dir, Stuart, Iowa.

1,369,757 (Feb. 22, 1921; appl. Aug. 30, 1919.) DEVICE FOR THE
KILLING OR DISABLING OF FLIES AND INSECTS. Author W. Cash, Decatur,
Ill. - United States Wire Mat Co., Decatur, Ill.

1,370,496 (Mar. 1, 1921; appl. Mar. 26, 1920.) INSECT-DESTROYER.
Josiah A. Ratcliff, Alexandria, Ind.

1,380,355 (June 7, 1921; appl. Dec. 3, 1917.) IMPLEMENT OR
DEVICE FOR KILLING OR DISABLING INSECTS, FLIES, OR THE LIKE.
Arthur W. Cash, Decatur, Ill. - United States Wire Mat. Co., Decatur,
Ill.

1,388,154 (July 19, 1921; appl. Aug. 6, 1918.) INSECT-KILLING DE-
VICE. George W. Gomber, Conyngham, Pa. A. W. Drake Mfg. Co., Pa.

1,393,571 (Oct. 11, 1921; appl. May 2, 1921.) COMBINED FLY-
SWATTER AND BRUSH. Constance A. Riek, Hermann, Mo.

1,412,312 (Apr. 11, 1922; appl. Aug. 18, 1921.) INSECT SWATTER.
Harry E. Little, Wichita, Kans.

1,425,622 (Aug. 15, 1922; appl. Oct. 17, 1921.) FLY SWATTER.
Richard Zohm, Rockford, Ill.

1,440,809 (Jan. 2, 1923; appl. Dec. 14, 1921; Renewed Nov.
20, 1922) FLY-SWATTER. Charles W. Woodworth, Berkeley, Calif.

1,444,720 (Feb. 6, 1923; appl. Aug. 31, 1922.) FLY SWATTER.
Charles D. Younger, Edgeley, N. Dak. - One-half to Bert R. Vogt,
Edgeley, N. Dak.

1,456,753 (May 29, 1923; appl. Apr. 18, 1922.) FLY SWATTER.
Alfred K. Ancker and Robert F. Morton, Denver, Colo.

1,458,071 (June 5, 1923; appl. Dec. 31, 1921.) INSECT-DESTROYING
DEVICE. Mitsutaro Nakamura, Chico, Calif.

1,465,523 (Aug. 21, 1923, appl. Sept. 15, 1922.) FLY SWATTER.
Harry W. Mangold and Anne M. Mangold, San José, Calif.

1,479,046 (Jan. 1, 1924; appl. Jan. 23, 1922.) FLY SWATTER.
Herbert Koontz, South Bend, Ind.

1,481,069 (Jan. 15, 1924; appl. Apr. 22, 1922.) FLY SWATTER.
Oscar A. Schneider, Random Lake, Wis.

1,481,452 (Jan. 22, 1924; appl. Apr. 16, 1923.) FLY SWITCH.
Louis H. Woodcock, Colville, Wash.

1,481,758 (Jan. 22, 1924; appl. July 31, 1922.) FLY SWATTER.
Louis C. Stukenborg, Memphis, Tenn.

1,487,750 (Mar. 25, 1924; appl. Dec. 20, 1922.) INSECT DESTROYER.
Joseph N. Miller, McHenry, Ill.

1,500,442 (July 8, 1924; appl. Feb. 10, 1923.) FLY SWATTER..
Albert N. Cooper, Lodi, Calif.

1,501,467 (July 15, 1924; appl. June 12, 1923.) FLY SWATTER.
James S. Rairden, Waterford, Calif.

1,509,489 (Sept. 23, 1924; appl. Jan. 14, 1922; Renewed Feb. 27,
1924. INSECT SWATTER. August Rochwite, Hartford, Wis.

1,554,152 (Sept. 15, 1925; appl. July 9, 1923.) FLY SWATTER.
Charles J. Williams, Pocatello, Idaho.

1,554,288 (Sept. 22, 1925; appl. Aug. 9, 1923.) INSECT DESTROY-
ER. Frank Madlo, Berwyn, Ill. - Gruver Mfg. Co., Chicago, Ill.

1,571,619 (Feb. 2, 1926; appl. Feb. 9, 1923.) DEVICE OR IMPLEMENT
FOR KILLING OR DISABLING INSECTS, FLIES, AND THE LIKE. John L. Bennett,
Decatur, Ill. - U.S. Mfg. Corp., Decatur, Ill.

1,578,757 (Mar. 30, 1926; appl. July 2, 1925.) FLY SWATTER.
James S. Rairden, Waterford, Calif.

1,590,846 (June 29, 1926; appl. Nov. 28, 1925.) FLY SWATTER.
George A. Moore, Medford, Mass.

1,591,870 (July 6, 1926; appl. Mar. 4, 1926.) FLY SWATTER.
Edwin W. Wood, Lockridge, Okla.

1,603,533 (Oct. 19, 1926; appl. July 20, 1926.) FLY SWATTER.
Milton W. Gatch, Baltimore, Md. - Gatch Brush & Wire Goods Co.,
Md.

1,605,438 (Nov. 2, 1926; appl. Jan. 25, 1926.) FLY SWATTER.
William A.C. Jacko, Braddock, Pa.

1,612,620 (Dec. 28, 1926; appl. Mar. 29, 1926.) FLY SWATTER.
William B. Ellsworth, Hudson, Ohio. - One-half to William A.
Ellsworth, Hudson, Ohio.

1,628,486 (May 10, 1927; appl. Oct. 26, 1926.) FLY SWATTER.
John Azamber, Pittsburg, Kans.

1,631,864 (June 7, 1927; appl. May 11, 1926.) FLY SWATTER.
Norton T. Hendrickson and Charles Roholt, Hoople, N. Dak.

1,639,559 (Aug. 16, 1927; appl. Apr. 8, 1927.) FLY SWATTER.
Milton W. Gatch, Baltimore, Md.

1,650,548 (Nov. 22, 1927; appl. May 21, 1927.) FLY SWATTER.
Frederick B. Sullivan, Oakland, Calif.

1,656,969 (Jan. 24, 1928; appl. Mar. 30, 1927.) FLYTRAP.
Adolph Babl, New York, N.Y.

1,660,011 (Feb. 21, 1928; appl. Sept. 27, 1926.) FLYCATCHER.
Herman M. Linding, Ossining, N.Y.

1,662,264 (Mar 13, 1928; appl. July 8, 1927.) FLY SWATTER.
Edwin L. Henderson, Wausau, Wis. - Wilson-Hurd Co., Wausau, Wis.

1,664,762 (Apr. 3, 1928; appl. Aug. 1, 1927.) INSECT DESTROYER.
Herman E. Voss, Yuh sien, China.

1,665,270 (Apr. 10, 1928; appl. Mar. 14, 1927.) FLY SWATTER.
John A. Lubbers, Clinton, Iowa - Lubbers & Bell Mfg. Co., Clinton, Iowa.

1,669,913 (May 15, 1928; appl. Aug. 2, 1927.) INSECT DESTROYER.
Georgean Robeson, Washta, Iowa.

1,685,990 (Oct. 2, 1928; appl. Oct. 14, 1926.) FLY SWATTER.
Walter H. A. Emanuel, Fairchild, Wis.

1,694,069 (Dec. 4, 1928; appl. Aug. 6, 1927.) EXTENSION FOR FLY
SWATTERS. Fred Lombard, Santa Rosa, Calif.

1,727,768 (Sept. 10, 1929; appl. Nov. 8, 1926.) FLY SWATTER.
Erskine P. Harley, Oklahoma City, Okla.

1,765,147 (June 17, 1930; appl. May 10, 1929.) EXTENSION FOR FLY SWATTERS. John P. Haberle, Glen Olden, Pa.

Reissue 17,731 (July 15, 1930; appl. Mar. 21, 1929.) HANDLE FOR FLY SWATTERS AND OTHER UTENSILS AND IMPLEMENTS. Walter H.A. Emanuel, Fairchild, Wis. - U.S. Mfg. Corp. Decatur, Ill.

1,797,557 (Mar. 24, 1931; appl. Nov. 23, 1929.) VACUUM CLEANER. Ernest R. Stine and Matthias R. Bernhardt, Lenoir, N.C. - A fly swatter is attached to this device for stunning flies so that they can be picked up by the vacuum cleaner.

1,820,360 (Aug. 25, 1931; appl. June 25, 1928.) FLY SWATTER. Robert F. Meggitt, Cheboygan, Mich.

1,860,939 (May 31, 1932; appl. Mar. 28, 1930.) FLY SWATTER. Albert D. Miller, Sulphur Well, Ky.

1,861,688 (June 7, 1932; appl. Jan. 7, 1929.) FLY SWATTER. Carmi R. Crawford, Chicago, Ill. - Arthur C. Prince, Chicago, Ill.

1,882,291 (Oct. 11, 1932; appl. Dec. 7, 1931.) FLY SWATTER. Stanley G. Monroe and Frank Shepherd, Akron, Ohio.

1,885,730 (Nov. 1, 1932; appl. Nov. 2, 1928.) EXTENSION HANDLE FOR UTENSILS, SUCH AS FLY SWATTERS AND THE LIKE. Franz K. Krag, Chicago, Ill., and John V. Nelson, Maywood, Ill., - U.S. Mfg. Corp., Decatur, Ill.

1,886,039 (Nov. 1, 1932; appl. Aug. 10, 1929.) INSECT DESTROYER. Albert D. Miller, Goshen, Ind.

1,897,697 (Feb. 14, 1933; appl. Apr. 11, 1931.) FLY SWATTER. Worth M. Gray, Elkin, N.C.

1,913,228 (June 6, 1933; appl. Nov. 8, 1932.) FLY SWATTER AND THE LIKE. John L. Bennett, Decatur, Ill. - U.S. Mfg. Corp., Decatur, Ill.

1,939,838 (Dec. 19, 1933; appl. Feb. 18, 1933.) INSECT DESTROYER. James G. Wasson, Canton, Ill.

ASSIGNEE INDEX
(Numbers refer to patents cited)

Compress Buckle Co., 1,290,998
Cruver Mfg. Co., 1,331,266; 1,331,306; 1,554,288.
Drake, A. W., Mfg. Co., Reissue 15,154.
Ellsworth, William A., 1,612,620
Estes, William P. R., 1,214,446

Gatch Brush and Wire Goods Co., 1,603,533
Hall, John P., 1,286,894
Klemm, Lewis K., Jr., 1,237,081
Lubbers and Bell Mfg. Co., 1,665,270
Prince, Arthur C., 1,861,688
Tenney, H. O., 1,317,999
U. S. Mfg. Co., 1,571,619; Reissue 17,731; 1,885,730; 1,913,228
United States Wire Mat Co., 1,218,619; 1,237,168; 1,279,985; 1,369,757;
1,380,355; 1,913,228
Varnier, George E., 1,326,577
Vogt, Bert R., 1,444,720
Wilson-Hurd Co., 1,662,264

PATENTEE INDEX

Ancker, Alfred K., and Morton, Robert F., 1,456,753
Azamber, John, 1,628,486
Babl, Adolph, 1,656,969
Bennett, John L., 1,218,619; 1,571,619; 1,913,228
Bernhardt, Matthias R., (See Stine, Ernest R.)
Cash, Arthur W., 1,237,168; 1,279,985; 1,369,757; 1,380,355
Cooper, Albert N., 1,500,442
Crawford, Carmi R., 1,861,688
Cullen, Ernest E., 1,326,577
Dir, Joseph, 1,368,247
Earles, Fred E., 1,261,222
Ellsworth, William B., 1,612,620
Emanuel, Walter H. A., 1,685,990; Reissue 17,731
Emmanuel, David E., 1,228,891
Ferguson, Clarence L., 1,214,446
Fields, Claude F., (See Hall, John P.)
Fogh, Hans, P., 1,255,303
Gatch, Milton W., 1,603,533; 1,639,559
Gomber, George W., Reissue 15,154
Gray, Worth M., 1,897,697
Haberle, John P., 1,765,147
Hall, John P. and Fields, Claude F., 1,286,894
Hannon, George M., 1,340,767
Harley, Erskine P., 1,727,768
Henderson, Edwin L., 1,662,264
Hendrickson, Norton T., and Roholt, Charles, 1,631,864
Henry, George D., 1,288,583; 1,315,186
Horsley, Robert L., 1,290,998
Hutton, Clyde S., 1,277,216
Jacko, William A. C., 1,605,438
Kelso, Benjamin F., 1,334,246; 1,361,337
Keplinger, George B., 1,331,266

Kester, Willard W., 1,225,971
Koontz, Herbert, 1,479,046
Krag, Franz K. and Nelson, John V., 1,885,730
Krumlaw, George D., 1,229,580
Linding, Herman M., 1,660,011
Little, Harry E., 1,412,312
Lombard, Fred, 1,694,069
Lowe, Frank G., 1,261,222
Lubbers, John A., 1,665,270
Madle, Frank, 1,554,288
Mangold, Anne M., (See Mangold, Harry W.)
Mangold, Harry W. and Mangold, Anne M., 1,465,523
Meggitt, Robert F., 1,820,360
Miller, Albert D., 1,860,939; 1,886,039
Miller, Joseph N., 1,487,750
Monroe, Stanley G. and Shepherd, Frank, 1,882,291
Moore, Franklin O., 1,272,295
Moore, George A., 1,354,775; 1,590,846
Morton, Robert F., (See Ancker, Alfred K.)
Mott, James L., Jr., 1,237,081
Nakamura, Mitsutaro, 1,458,071
Nelson, John V., (See Krag, Franz K.)
Pitts, Elmer O., 1,217,212
Rairden, James S., 1,501,467; 1,578,757
Ratcliff, Josiah A., 1,370,496
Rick, Constance A., 1,393,571
Robeson, Georgean, 1,669,913
Rochfort, Alexander E., 1,228,701
Rochwite, August, 1,509,489
Roholt, Charles, (See Hendrickson, Norton T.)
Schneider, Oscar A., 1,481,069
Shepherd, Frank (See Monroe, Stanley G.)
Smith, Allen, Jr., 1,342,974
Stearns, William F., 1,268,640
Stine, Ernest R. and Bernhardt, Matthias R., 1,797,557
Stukenborg, Louis C., 1,481,758
Sullivan, Frederick B., 1,659,548
Thomas, Edwin E., 1,317,999
Vail, Joseph M., 1,254,092
Voss, Herman E., 1,664,762
Wasson, James G., 1,939,838
Wesley, Harry, 1,465,523
Whaley, Winfred W., 1,293,591
Williams, Charles J., 1,554,152
Wohluter, Marius Z., 1,331,306
Wood, Edwin W., 1,591,870
Woodcock, Louis H., 1,481,452
Woodworth, Charles W., 1,440,809
Younger, Charles D., 1,444,720
Youngs, Agnes O., 1,263,988
Zohm, Richard, 1,425,622